

### ASHRAE Iowa Chapter [www.ashraeiowa.org](http://www.ashraeiowa.org)

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## THIS MONTH AT ASHRAE Refrigeration

#### Date:

Thursday, March 6<sup>th</sup>

#### Schedule:

4:30-5:30PM: Social Hour  
5:30-6:30PM: Chapter Meeting /  
Dinner  
6:30-7:30PM: Speaker  
Presentation

#### Social Hour:

Sponsored by Systems  
Management and Balancing

#### Speaker Presentation:

Dr. Eckhard A. Groll will give a  
presentation on "Refrigerants –  
Past Present & Future"

#### Location:

Ramada Tropics Conference  
Center  
5000 Merle Hay Rd.  
Des Moines, IA  
[click for map](#)

#### Chapter Meeting/Dinner Cost:

Free to ASHRAE Iowa Chapter  
members (use coupon code  
MEMBER)  
\$20 for Guests

#### RSVP:

Registration for dinner has now  
closed.



Come join us at the Ramada Tropics Conference Center on Thursday, March 6<sup>th</sup> for a dinner meeting and presentation on refrigerants.

ASHRAE Distinguished Lecturer Dr. Eckhard A. Groll of Purdue University will be giving a presentation on "Refrigerants – Past, Present & Future."

Please click the following link to view Dr. Groll's biography info:  
<https://engineering.purdue.edu/ME/People/ptProfile?id=11748>

See you there!

## PAST PRESIDENTS

Matt Jesson .....	2012-2013
Kelly Crow .....	2011-2012
Holly Elbert .....	2010-2011
Roger Leshner .....	2009-2010
Kit Cartwright .....	2008-2009
Jerrod Sieverding .....	2007-2008
Jason Kems .....	2006-2007
Chuck Heldenbrand .....	2005-2006
Jeff Gross .....	2004-2005
Ron Engelhardt .....	2003-2004
Dan Zaug .....	2002-2003
Susan Oltrogge .....	2001-2002
Christopher Nelson .....	2000-2001
Donald Swanson .....	1999-2000
Edward Truslow .....	1998-1999
James Hall .....	1997-1998
Robbin Vannoy .....	1996-1997
Mark Conway .....	1995-1996
Paul Melfon .....	1994-1995
Gregory Maxwell .....	1993-1994
Jeffery Hammer .....	1992-1993
Jack Culp .....	1991-1992
James Lee .....	1990-1991
Clint Leonard .....	1989-1990
Charles Pedersen .....	1988-1989
Gary Reynolds .....	1987-1988
Dennis Hogan .....	1986-1987
Eugene Zefron .....	1985-1986
Donald Hagge .....	1984-1985
Robert Rist .....	1983-1984
Joseph Proctor .....	1982-1983
Mark Allen .....	1981-1982
Curtis Klaassen .....	1980-1981
Gerald Anderson .....	1979-1980
C.W. Miller .....	1978-1979
Richard South .....	1977-1978
Verne Stewart .....	1976-1977
Curtis Hammer .....	1975-1976
Ralph Schilling .....	1974-1975
Donald Bonicamp .....	1973-1974
Kent Mosher .....	1972-1973
Thomas Van Hon .....	1971-1972
Robert McBride .....	1970-1971
William Whitman .....	1969-1970
Einar Dahl .....	1968-1969
Eugene O'Neil .....	1967-1968
James Green .....	1966-1967
Neil Hanson .....	1965-1966
Bob Flanagan .....	1964-1965
Lyndon Kelley .....	1963-1964
Elwood Giberson .....	1962-1963
Vern Polly .....	1961-1962
John Bain .....	1960-1961
Crom Campbell .....	1959-1960
R.T. Howard .....	1958-1959
W.A. Schworm .....	1957-1958
D.E. Schroeder .....	1956-1957
G.J. Kraai .....	1955-1956
W.E. Nanes .....	1954-1955
J.F. Sandfort .....	1953-1954
R.H. Schnell .....	1952-1953
C.H. McGuiness .....	1951-1952
R.S. Stover .....	1950-1951
D.E. Wells .....	1949-1950
D.C. Murphy .....	1948-1949
C.A. Wheeler .....	1947-1948
E.O. Olson .....	1946-1947
B.E. Landes .....	1945-1946
W.W. Stuart .....	1944-1945
C.W. Helstrom .....	1943-1944
P.E. Triggs .....	1942-1943
Perry LaRue .....	1941-1942
R.A. Norman .....	1940-1941
Tracy Johnson .....	1939-1940
W.R. White .....	1938-1939

## President's Corner



Walking outside you wouldn't believe that it is already March, but I assure you that spring is just around the corner. This year has been flying by with only two more chapter meetings and one more golf outing to go before the summer break.

The next chapter meeting will focus on Refrigeration. Chris Deal, Iowa Chapter Refrigeration Chair, did a great job securing our second free Distinguished Lecturer from society. That means members have yet another opportunity to earn a free Professional Development Hour (PDH) by attending the presentation after dinner. Since I became president, chapter members have had the opportunity to earn up to 13 PDHs for a very reasonable fee. Be sure to pass this information on to potential members as a way to get them to join and take advantage of what the Iowa Chapter has to offer. Lastly, special thanks to Systems Management & Balancing for sponsoring the drinks at this event.

Shine up your golf clubs and hit the range to get prepared for the Spring Fling Golf Outing on Monday, May 19, 2014. We are a couple months away but make sure you spread the word that this event will be held at Des Moines Golf & Country Club. This an

exclusive, private course so it may be one of the only opportunities in your lifetime to play it. It was home to the 1999 Senior Open and the upcoming 2017 Solheim Cup. The chapter committed to 100 golfers at this event so if we have less than that number, the chapter is responsible for paying the difference. I don't feel there will be an issue based on past attendance but wanted to give you all a head's up early to make sure you mark your calendars.

Lastly, the golf committee will be reaching out to businesses to become a sponsor. The levels for this event are \$1,000 for platinum, \$500 for gold, and \$100 for silver. Hart-Hammer has already committed to one of the platinum sponsorships which means there is one more available. Reach out to Jeff Hammer or Jason Kems right away to secure the last platinum spot.

I look forward to seeing you all at the meeting on Thursday.

**Tim Conrad**  
**Iowa ASHRAE Chapter**  
**President 2013-2014**

## UPCOMING CHAPTER MEETINGS

**March 6<sup>th</sup>**  
Dinner meeting followed by presentation on "Refrigerants – Past, Present & Future"

Location:  
Ramada Tropics Resort  
Merle Hay Rd  
Des Moines, IA

**April 17<sup>th</sup>**  
ASHRAE Webcast:  
"Buildings in Balance: IEQ and Energy Efficiency"

Location:  
Iowa Energy Center Energy Resource Station,  
Ankeny DMACC

## ASHRAE Iowa February Meeting



The February meeting was a Resource Promotion night held at Johnny's Italian Steakhouse. Afternoon tech sessions were put on by guest speaker and ASHRAE Distinguished Lecturer Hoy Bohanon, PE. The event was well attended with close to 50 attendees for the tech sessions and/or dinner and chapter meeting.

The tech session slides can be viewed and downloaded via the following links:

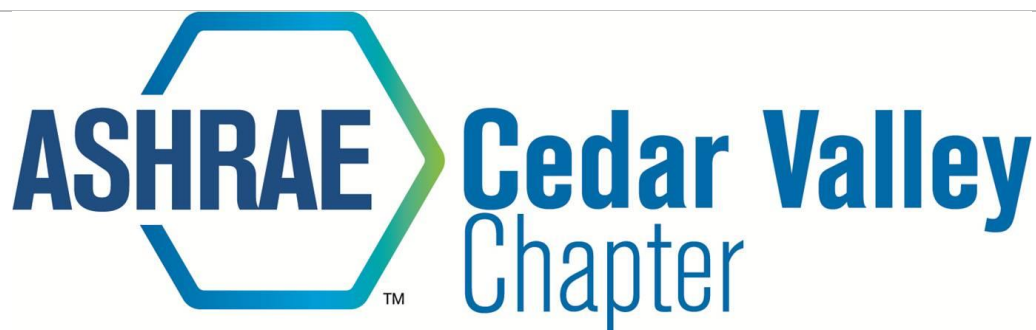
EB RCx : <https://workingbuildings.box.com/s/k26rr0d0dp9owmcvaho0>

Demand Control Ventilation: <https://workingbuildings.box.com/s/iwd9t8f5328s2v3zvup6>

Multiple Spaces: <https://workingbuildings.box.com/s/svyogtq835ykufd5sui9>

Tech session attendee's needing PDH documentation can download the attendance sheet here: [February Meeting Attendance Sheet](#)

## Region VI 2014 CRC



### *Chapter Regional Conference 2014 Iowa City, IA*

Good day to all!

Although we are still in the depths of another cold Midwest winter, spring is not too far off. And with every spring, comes the annual Region VI CRC, hosted by one of our chapters. I want to be one of the first to invite you to Iowa City, IA for the 2014 Cedar Valley ASHRAE CRC.

Located in the heart of eastern Iowa, Iowa City is the home of this year's Region VI Chapter Regional Conference. CRC will take place on Thursday May 1<sup>st</sup> through Saturday May 3<sup>rd</sup>, and will be hosted at adjoining hotels in downtown Iowa City. Hotel Vetro will be the site of our technical sessions, business meetings, and traditional presidential luncheon and awards dinner. The Sheraton Hotel, located adjacent to the Vetro, will provide accommodations.

To start the weekend, we will be heading out to Cedar Ridge Winery in Swisher, IA, for the Thursday night welcome party. Cedar Valley ASHRAE will be providing buses to and from the event, to allow everyone to partake in the fabulous wines and libations of the Winery.

On Friday, we will host a set of three technical tracks that we hope will cover many interests. A basic track, including pump and piping design will be presented on by The Little Red School House. Our distinguished lecturer, Frank Shadpour, will be covering controls across the board. And finally, we have a group of local law professionals coming in to talk contracts and construction law with us. Each track contains three separate classes, and covers a variety of topics within their main focus.

Registration will be open soon through our chapter website, and will contain further details. Hope to see you all soon!

Sincerely,

Nick Graf

2014 Cedar Valley CRC Communications Chair



## ASHRAE Iowa Archives



Blast from the past, can you guess who is wearing the big bad wolf mask? Or even what chapter year this BOG Meeting photo was taken? Email e-Committee Chairperson Jason Kems ([jkems@harthammer.com](mailto:jkems@harthammer.com)) if you think you know and you may win a prize!

## ASHRAE Iowa Research Promotion – Corporate Donors Needed!

Thank you to all of the individuals and companies that have donated to the ASHRAE Iowa Research Promotion fund so far this year, we are currently at 55% of our goal!

If your company has donated in the past but has yet to do so this year, please consider making a donation. It only takes a contribution of \$150 to make our honor roll and it goes to a really good cause, ASHRAE research!

# ASHRAE Technology Awards Program



The ASHRAE Iowa Chapter is soliciting Technology Award Applicants. The purpose of the awards is three-fold:

- To recognize ASHRAE members who design and/or conceive innovative technological concepts that are proven through actual operating data.
- To communicate innovative systems design to other ASHRAE members.
- To highlight ASHRAE technological achievement to others, including associated professionals and societies worldwide, as well as building and facility owners.

If interested in submitting a project, contact Emir Kadic at [kadice@kijww.com](mailto:kadice@kijww.com) or Xiaohui (Joe) Zhou at [xhzhou@iastate.edu](mailto:xhzhou@iastate.edu). Submissions for the chapter level will be due by **March 15<sup>th</sup>**, 2014.

For more information on the Technology Awards Program visit <https://www.ashrae.org/membership-conferences/honors--awards/technology-awards-program>

## ASHRAE's Attic & Antiques



Have you ever encountered pieces of HVAC history while working on remodel projects? Are you fascinated by the origins of modern HVAC equipment? If so, help us to launch our new section, ASHRAE's Attic & Antiques. We're trying to populate our newsletter and website with fascinating old photos and historical anecdotes, preferably with a local bent. Send your photos and stories to Matt Jesson at [mattj@hvactab.com](mailto:mattj@hvactab.com)

## The HVAC&R Industry

### **HVAC&R Company Was Door Hackers Used to Enter Target's Computers**

NEW YORK—Investigators say they believe that remote access granted through Target's computerized heating and cooling software was the entry point through which hackers got into Target's systems to access customer data. Pittsburgh-based Fazio Mechanical Services issued a statement acknowledging a role in the hacking attack on Target that stole sensitive information from 110 million customers. Cybersecurity analysts had speculated that Fazio may have remotely monitored heating, cooling and refrigeration systems for Target, which could have provided a possible entry point for the hackers. But Fazio denied that, saying it uses its electronic connection with Target to submit bills and contract proposals. It said that Target is the only firm that it performs these functions for, and that the U.S. retailer was the only firm affected by the security breach.

[Read more](#)

### **Submerging Supercomputers Helps Solve Energy Issue**

TOKYO—Some operators of supercomputers are submerging their machines in liquids, without causing any apparent damage, to keep them from overheating. Advocates say the practice, called immersion or submersion cooling, could solve one of the biggest challenges of the digital economy: reducing the air-conditioning bills and environmental strains of power-hungry servers and supercomputers that crunch ever-increasing amounts of data. A prototype supercomputer called Tsubame KFC at the Tokyo Institute of Technology, which is submerged in a tank of mineral oil, is 50% more powerful than an older supercomputer at the institute but uses the same amount of energy. Unlike water, neither mineral oil nor liquid fluoroplastics conduct electricity, which minimizes the risk of short-circuiting the equipment.

[Read more](#)

### **World Warmed While U.S. Chilled in January**

WASHINGTON—While the United States suffered through a bitterly cold January, much of the rest of the world was warmer than average. Globally, January 2014 was the fourth-warmest January since record keeping began in 1880, according to a climate report released recently by scientists at the National Oceanic and Atmospheric Administration (NOAA). The month was warmer in 2002, 2003 and 2007. January's global average temperature was 54.8°F (12.7°C), which was 1.17°F (0.65°C) warmer than the 20th-century average of 53.6°F (12°C). All of the 10 warmest Januaries have occurred since 1998. Land areas in the Southern Hemisphere had their warmest January on record, while both France and China had their second warmest January, according to the NOAA report. Despite the extreme cold in the eastern U.S., warmth in the West counterbalanced it such that January ended up only 0.1°F (0.06°C) colder than normal across the Lower 48. In striking contrast, Alaska was nearly 15°F (8.3°C) warmer than normal, its third warmest January in the 96 years it has recorded such data.

[Read more](#)

### **Illinois Tops List of States With Most LEED-Certified Space**

WASHINGTON—Illinois jumped from fifth to first in this year's "Top 10 States for LEED" ranking by the U.S. Green Building Council (USGBC). The per-capita list is based on a per-capita basis of 2010 U.S. Census data combined with commercial and institutional green building projects that received LEED certification in 2013. Combined, the ten states accounted for 1,777 projects and 226.8 million ft<sup>2</sup> (21 million m<sup>2</sup>) of certified space. USGBC annually ranks the states based on LEED-certified buildings per capita. Illinois' 171 projects represent 2.29 ft<sup>2</sup> (0.2 m<sup>2</sup>) of LEED space per resident. Maryland, Virginia and Massachusetts followed Illinois. California and New York tied for fifth place. The District of Columbia has a much higher per capita amount of LEED-certified space, at more than 32 ft<sup>2</sup> (3 m<sup>2</sup>) per resident. However, the ranking only includes states.

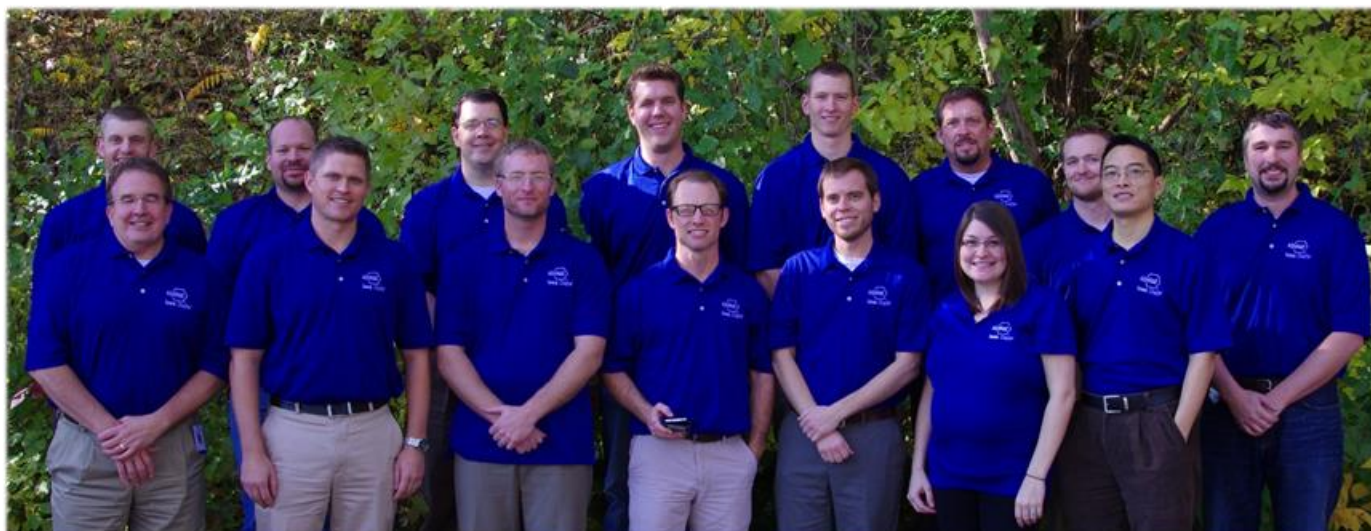
[Read more](#)

## 2013-2014 Meeting Dates

MONTH	GENERAL MEETING	
	Topic	Date
July	-	-
August	-	-
September	Fall Frolic Golf Outing – Legacy Golf Club	5
October	Student Night / Membership Promotion	16
November	Research Promotion	12
December	Past Presidents / History (joint w/ CSI and SMCI)	16 (Lunch)
January	Membership Promotion	13 (Lunch)
February	Resource Promotion	17
March	Refrigeration	6
April	ASHRAE Webcast	17
May	Spring Fling Golf Outing	19

Winter Meeting	<a href="#">2014 Winter Conference – New York, NY</a>	Jan 18-22
CRC	Region VI CRC – Iowa City, IA	May 1-3
Summer Meeting	2014 Annual Conference – Seattle, WA	Jun/Jul 28-2

## Meet Your BOG Officers



### Back Row (Left to Right)

Chris Deal, Refrigeration  
 Dan Ponxs, BOG  
 Jason Kems, e-Committee  
 Luke Miller, RP  
 David Poetting, GGAC  
 Vince Sanders, RP  
 Justin Barrett, President-Elect

### Front Row (Left to Right)

Dan Zaug, BOG  
 Tim Conrad, President  
 Kelly Crow, Honors/Awards  
 Matt Gumm, Treasurer  
 Matt Jesson, Historian  
 Britt Vincent, CTTC  
 Xiaohui (Joe) Zhou  
 Patrick Peterson, BOG



# ASHRAE 2013-2014 Research Promotion Fund

## ASHRAE Iowa Research Investors 2013-2014

Individual Investors HR = Honor Roll participants \$100 min	55.9% OF GOAL \$7,048.54 -TO GO!	Company Investors HR = Honor Roll participants \$150 min
Mr. Mark W Allen (HR)	\$16,000	A. J. Allen Mechanical Contractors Inc. (HR)
Mr. Justin J Barrett, PE (HR)	\$15,500	Alvine Engineering (HR)
Mrs. Kim M Best (HR)	\$15,000	ASHRAE Iowa Chapter (HR)
Mr. Aaron Brace (HR)	\$14,500	C.H. McGuiness Co. Inc. (HR)
Mr. Kit C. Cartwright (HR)	\$14,000	Capitol R&D Inc. (HR)
Mr. Timothy J Conrad (HR)	\$13,500	DPT Mechanical (HR)
Mr. Mark G Conway (HR)	\$13,000	Dahl Air Conditioning & Heating (HR)
Mr. Kelly G Crow (HR)	\$12,500	Hart Hammer Incorporated (HR)
Mr Einar Dahl Jr (HR)	\$12,000	Hydronic Energy Inc.-Des Moines (HR)
Mr. Larry Dewey (HR)	\$11,500	KJWW Engineering Consultants (HR)
Mr. Ronald Engelhardt (HR)	\$11,000	MMS Inc. (HR)
Mr. Joe Fields (HR)	\$10,500	Mechanical Contractors Association of Iowa (HR)
Mr. Matt Gumm, PE (HR)	\$10,000	Millennium Technology Of Iowa (HR)
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Mr. Emir Kadic (HR)	\$7,500	VHF Sales, Inc. (HR)
Mr. Jeff Lindell (HR)	\$7,000	Woodman Controls Company (HR)
Mr. Richard A. Kapustka (HR)	\$6,500	
Mr. Jason E. Kems (HR)	\$6,000	
Mr. Paul K Melton (HR)	\$5,500	
Mr. Frederic L Miller (HR)	\$5,000	
Mr. Fred Miller (HR)	\$4,500	
Mr. Luke Miller (HR)	\$4,000	
Mr. Robert Morris, P.E. (HR)	\$3,500	
Mr. Andrew L. Pospisil (HR)	\$3,000	
Mr. Vince Sanders (HR)	\$2,500	
Mr Don Stanek (HR)	\$2,000	
Mr. Doug Sullivan (HR)	\$1,500	
Mr. Dale Vest (HR)	\$1,000	
Mr. Daniel V Zaug (HR)	\$500	
Dr. Xiaohui (Joe) Zhou, PhD, PE (HR)	\$0	

Your contribution puts us closer to achieving our goal. Please send what you can today!

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Sponsoring our monthly newsletter is a great way to advertise your business and support your Iowa ASHRAE Chapter. Renewing and new sponsors need to send in payment immediately for inclusion in next month's (and all subsequent) newsletter. Make check payable to: ASHRAE Iowa. Cost is \$125.

Send to:

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**Ankeny, IA 50021**

Andrew Pospisal is collecting cards for all of the sponsors. If you've paid and don't see your card here or would like to revise the card shown, send a card-sized PNG or JPEG file to: [apospisal@mail.ashrae.org](mailto:apospisal@mail.ashrae.org)